

AUG 12 2004



| | | |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|
| FORM PTO-1449 | SERIAL NO. 10/684,222 | CASE NO. 11336/433 (P03059US) |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | FILING DATE Oct. 10, 2003 | GROUP ART UNIT 2125 APPLICANT(S): Devantier et al. |

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER <small>Number-Kind Code (if known)</small> | DATE | NAME | CLASS/ SUBCLASS | FILING DATE |
|------------------|----|---------------------------------------------------------------|------------|--------------|--------------------|-------------|
| /DP/ | A1 | 4,638,505 | 01/20/1987 | Polk, et al. | | |
| ↓ | A2 | 5,581,626 | 12/03/1996 | Palmer | | |
| | A3 | 6,031,920 | 02/29/2000 | Wiener | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER <small>Number-Kind Code (if known)</small> | DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES OR NO |
|------------------|----|---------------------------------------------------------------|------------|---------|--------------------|-----------------------|
| /DP/ | A4 | EP 1 088 298 B1 | 11/12/2003 | EPO | | YES |

| EXAMINER INITIAL | OTHER ART - NON PATENT LITERATURE DOCUMENTS | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.) | |
| /DP/ | A5 | ALLISON, Roy F., "The Influence of Room Boundaries on Loudspeaker Power Output", <u>Journal of the Audio Engineering Society</u> , June 1974, Vol. 22, No. 5, pp. 314-320. |
| | A6 | ALLISON, Roy F., "The Sound Field in Home Listening Rooms.II" <u>Audio Engineering Society</u> , 52 nd Convention Oct. 31 – Nov. 3, 1975, AES preprint 1081 (L-2), 15 pages. |
| | A7 | ASANO, Futoshi; SWANSON, David C., "Sound Equalization in Enclosures using Modal Reconstruction", <u>J. Acoust. Soc. Am.</u> , Oct. 1995, 98 (4), pp. 2062-2069. |
| | A8 | ASANO, Futoshi; SUZUKI, Yoiti; and SWANSON, David C., "A Method of Optimizing Source Configuration in Active Control Systems Using Gram-Schmidt Orthogonalization," <u>Electrotechnical Laboratory</u> , 1-1-4 Umezono Tsukuba 305 Japan, asano@etl.go.jp , R.I.E.C. Tohoku Univ., A.R.L. Pennsylvania State University, 4 pages. |
| | A9 | BALLAGH, K.O., "Optimum Loudspeaker Placement near Reflecting Planes", <u>J. Audio. Eng. Soc.</u> , Dec. 1983, Vol. 31, No. 12, pp. 931-935. |
| | A10 | BENJAMIN, Eric and GANNON, Benjamin, "Effect of Room Acoustics on Subwoofer Performance and Level Setting," <u>Journal of the Audio Engineering Society</u> , 109 th Convention, Sept. 22-25, 2000, Los Angeles, California, AES preprint 5232, 36 pages. |
| | A11 | BERKOVITZ, Robert, "Digital Equalization of Audio Signals," <u>Digital Audio</u> , pp. 226-238. |
| | A12 | BHARTIKAR, Sunil; KYRIAKAKIS, Chris, "New Factors in Room Equalization Using a Fuzzy Logic Approach," <u>Journal of the Audio Engineering Society</u> , <u>Audio Engineering Society Convention Paper 5450</u> , 111 th Convention, Sept. 21-24, 2001, New York, New York, pp. 1-10. |
| | A13 | BORWICK, John (ed.), <u>Loudspeaker and Headphone Handbook</u> , Butterworth & Co. (Publishers) Ltd., 1988, ch. 7, pp. 264-318 (total 57 pages). |
| | A14 | CARA (Computer Aided Room Acoustics), ELAC Technische Software GmbH, Rendsburger Landstrasse 215, D-24113 Kiel, Germany, http://www.cara.de/ENU/index.html , 1 page. |
| ↓ | A15 | D'ANTONIO, Peter D., COX, Trevor J., "ROOM OPTIMIZER: A Computer Program to Optimize the Placement of Listener, Loudspeakers, Acoustical Surface Treatment and Room Dimensions in Critical Listening Rooms," RPG Diffuser Systems, Inc., pp. 45-61. |

| | |
|---------------------------|-------------------------------|
| EXAMINER /Disler Paul/ | DATE CONSIDERED 04/25/2007 |
|---------------------------|-------------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

AUG 12 2004

Page 2 of 3

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|-------------------------------------|
| FORM PTO-1449 | | SERIAL NO. 10/684,222 | CASE NO. 11336/433 (P03059US) |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | | FILING DATE Oct. 10, 2003 | GROUP ART UNIT 2125 |
| APPLICANT(S): Devantier et al. | | | |

| EXAMINER INITIAL | | | | OTHER ART - NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.) | |
|------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| /DP/ | A16 | ELLIOTT, S.J., NELSON, P.A., "Multiple-Point Equalization in a Room Using Adaptive Digital Filters", <u>Journal of the Audio Engineering Society</u> , Nov. 1989, Vol. 37, No. 11, pp. 899-907. | | | |
| | A17 | ELLIOTT, S.J.; BHATIA, L.P.; DEGHAN, F.S.; FU, A.H.; STEWART, M.S.; WILSON, D.W.; "Practical Implementation of Low-Frequency Equalization Using Adaptive Digital Filters," <u>Journal of the Audio Engineering Society</u> , December 1994, Vol. 42, No. 12, pp. 988-998. | | | |
| | A18 | FLIKKEMA, Paul G., "An Algebraic Theory of 3D Sound Synthesis with Loudspeakers," <u>AES 22nd International Conference on Virtual, Synthetic and Entertainment Audio</u> , pp. 1-4. | | | |
| | A19 | GRIESINGER, David, "Multichannel Sound Systems and Their Interaction with the Room," <u>AES 15th International Conference</u> , pp. 159-173. | | | |
| | A20 | GROH, A.R., "High Fidelity Sound System Equalization by Analysis of Standing Waves", <u>Journal of the Audio Engineering Society</u> , December, 1974, Vol. 22, No. 10, pp. 795-799. | | | |
| | A21 | HORBACH, Dr.-Ing. Ulrich; CORTEEL, Etienne, "Array Loudspeaker System for Virtual Sound Synthesis," Patent Application, 10 pages. | | | |
| | A22 | HORBACH, Ulrich, KARAMUSTAFAOGLU, Attila, "Numerical Simulation of Wave Fields Created by Loudspeaker Arrays," <u>Journal of the Audio Engineering Society</u> , AES preprint 5021 (H-2), 107 th Convention, Sept. 24-27, 1999, New York, 17 pages. | | | |
| | A23 | HORST, R.; THOAI, N.; PARDALOS, Panos M., THOAI Nguyen V., "Introduction to Global Optimization", 2 nd Edition, 2000, Kluwer Academic Publishers. | | | |
| | A24 | JACOBSEN, Oluf, "Some Aspects of the Self and Mutual Radiation Impedance Concepts with Respect to Loudspeakers", <u>Journal of the Audio Engineering Society</u> , March 1976, Vol. 24, No. 2, pp. 82-92. | | | |
| | A25 | KIRKEBY Ole; NELSON, PHILIP A.; HAMADA, Hareo; ORDUNA-BUSTAMANTE, Felipe, "Fast Deconvolution of Multi-Channel Systems using Regularization," 1998 IEEE, 1063-6676/98, pp. 189-195. | | | |
| | A26 | KLEINER, Mendel; LAHTI, Hans, "Computer Prediction of Low Frequency SPL Variations in Rooms as a function of Loudspeaker Placement," <u>Journal of the Audio Engineering Society</u> , AES preprint 3577 (G2-7), 94 th Convention, March 16-19, 1993, Berlin, 16 pages. | | | |
| ↓ | A27 | KORST-FAGUNDES, Bruno, "Acoustical Equalization at Multiple Listening Positions", Selected Portions, UMI Dissertation Services, Degree Date: 1996, 26 pages. | | | |
| | A28 | MORSE, P.M., <u>Vibration and Sound</u> , 2 nd . Edition, McGraw Hill, NY, 1948, 25 pages. | | | |
| | A29 | MORSE, P.M., and INGARD, K.U., <u>Theoretical Acoustics</u> , 1968, p. 576-599. | | | |
| | A30 | MOURJOPOULOS, John H., "Digital Equalisation of Room Acoustics," <u>Journal of the Audio Engineering Society</u> , 92 nd Convention, AES Preprint 3288, March 24-27, Vienna, 1992, 32 pages. | | | |
| | A31 | MUNSHI, Anees Saeed, "Multi-Loudspeaker Multi-Point Room Equalization," Thesis (M.A.Sc.), University of Toronto, 1990, ISBN 0-315-56734-1, 103 pages. | | | |
| | A32 | NEELY, Stephen T., Allen Jont B., "Invertibility of a room impulse response," <u>J. Acoust. Soc. Am</u> 66 (1), July 1979, 5 pages. | | | |
| | A33 | OLIVE, Sean E.; SCHUCK, Peter L.; SALLY, Sharon L.; BONNEVILLE, Mark E.; "The Effects of Loudspeaker Placement on Listener's Preference Ratings," <u>J. Audio Eng. Soc.</u> , September 1994, Vol. 42, No. 9, pp. 651-669. | | | |

| | |
|---------------------------|-------------------------------|
| EXAMINER /Disler Paul/ | DATE CONSIDERED 04/25/2007 |
|---------------------------|-------------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------|
| FORM PTO-1449 | SERIAL NO. 10/684,222 | CASE NO. 11336/433 (P03059US) |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | FILING DATE Oct. 10, 2003 | GROUP ART UNIT 2125 |
| | APPLICANT(S): Devantier et al. | |

| EXAMINER INITIAL | OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.) | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | |
| /DP/ | A34 | OPPENHEIM, Alan V., SCHAFER, Ronald W., STOCKHAM, Thomas G., Jr., "Nonlinear Filtering of Multiplied and Convolved Signals", IEEE Transactions on Audio and Electroacoustics, Sept. 1968, Vol. AU-16, No. 3, pp. 437-466. |
| | A35 | OPPENHEIM, Alan V.; SCHAFER, Ronald W.; BUCK, John R., Discrete Signal Processing, 2 nd Edition, 1999, Prentice Hall, 4 pages. |
| | A36 | PEDERSEN, Jan A.; HERMANSEN, Kjeld; and RUBAK, Per, "The Distribution of the Low Frequency Sound Field and its Relation to Room Equalization", <u>Journal of the Audio Engineering Society</u> , 96 th Convention, AES preprint 3852 (P12.5), February 26-March 1, 1994, Amsterdam, 33 pages. |
| | A37 | SANTILLIN, Arturo Orozco, "Experimental Low-Frequency Sound Equalization in an Extended Region of An Enclosure Using Adaptive Filters," <u>Journal of the Audio Engineering Society</u> , AES preprint 4755 (P8-4), 104 th Convention, May 16-19, 1998, Amsterdam, 9 pages. |
| | A38 | WALKER, R., "Low-Frequency Room Responses: Part 2 – Calculation Methods and Experimental Results," BBC Research Dept. Report BBD RD 1992/9, 1992, 21 pages. |
| | A39 | WATERHOUSE, Richard V. "Output of a Sound Source in a Reverberation Chamber and Other Reflecting Environments," <u>The Journal of the Acoustical Society of America</u> , Vol. 30, No. 1, pp. 4-13. |
| | A40 | WELTI, Todd, "How Many Subwoofers are Enough", <u>Journal of the Audio Engineering Society</u> , Audio Engineering Society Convention Paper, 112 th Convention May 10-13, 2002, Munich Germany, pp. 1-15. |
| | A41 | WELTI, Todd, "Subwoofers: Optimum Number and Locations," 30 pages. |
| ↓ | A42 | ZACHAROV, Nick; BECH, Soren; MEARES, David, "The Use of Subwoofers in the Context of Surround Sound Program Reproduction," <u>J. Audio Eng. Soc.</u> , April 1998, Vol. 46, No. 4, pp. 276-287. |

| | |
|---------------------------|-------------------------------|
| EXAMINER /Disler Paul/ | DATE CONSIDERED 04/25/2007 |
|---------------------------|-------------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|-------------------------------------|
| FORM PTO-1449 <i>MAY 6 2007</i> PATENT & TRADEMARK OFFICE | | SERIAL NO. 10/684,222 | CASE NO. 11336-433 (PO3059US) |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | | FILING DATE October 10, 2003 | GROUP ART UNIT 2615 |
| APPLICANT(S): Devantier, et al. | | | |

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER Number-Kind Code (if known) | DATE | NAME | CLASS/ SUBCLASS | FILING DATE |
|------------------|----|------------------------------------------------|------------|------------|-----------------|-------------|
| /DP/ | B1 | 2003-0179891 A1 | 09/25/2003 | Rabinowitz | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER Number-Kind Code (if known) | DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES OR NO |
|------------------|--|------------------------------------------------|------|---------|-----------------|-----------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| EXAMINER INITIAL | OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.) | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| | |
|---------------------------|-------------------------------|
| EXAMINER /Disler Paul/ | DATE CONSIDERED 01/29/2008 |
|---------------------------|-------------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.